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(54) PRODUCTION OF KERATIN FILM

(57) Abstract

PURPOSE: To produce a high-quality keratin film having suppressed hydrolysis of wool protein by dissolving wool in thioglycolic acid, making the solution into a film, drying and then cleaning the prepared film with water under an unheated state.

CONSTITUTION: Wool is dissolved in 100% thioglycolic acid into 0.1-30wt.% solution at 40-90°C, optionally an

insoluble content is removed by a means such as filtration, the solution is made into a film, which is dried, for example, under a little reduced pressure at 40-90°C for 1-2 hours to vaporize thioglycolic acid, the prepared film is washed with water under an unheated state to give a high-quality keratin film having suppressed hydrolysis of wool protein, high molecular weight and high strength free from deterioration.

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